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Application No. 10/620,456  
Amendment dated March 8, 2007  
Reply to Office Action of December 8, 2007

Docket No.: 4444-0120P

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A memory modeling circuit with fault toleration, comprising:  
a compare circuit, used to comparing compare memory data stored in the same address in  
of a plurality of memories, wherein the compare circuit compares at least three data inputs from  
different memories, wherein if the data inputs are divided into a first kind data and a second kind  
data and if the count of the first kind data outnumbers that of the second kind data, the compare  
circuit will output the first kind data; and  
a control circuit coupled to said plurality of memories, wherein said control circuit  
controls said memory data to be read or written from/to said plurality of memories.
2. (Currently Amended) The memory modeling circuit according to claim 1, further  
comprising:  
a test circuit, receiving said memory data and the first kind reading data generated by said  
compare circuit to generate a testing result.
3. (Currently Amended) The memory modeling circuit according to claim 2, wherein said  
test circuit further comprises a plurality of sub-test circuits with the same circuit design.
4. (Currently Amended) The memory modeling circuit according to claim 3, wherein said  
testing result gets an error code and then a faulty memory or a faulty sub-test circuit can be  
identified according to said error code.

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5. (Currently Amended) The memory modeling circuit according to claim 1, wherein said plurality of memories are the same type of memory.

6. (Currently Amended) The memory modeling circuit according to claim 5, wherein said memory is synchronous dynamic random access memory (SDRAM).

7. (Currently Amended) The memory modeling circuit according to claim 1, wherein said compare circuit further comprises a plurality of sub-compare circuits with the same circuit design.

8. (Currently Amended) The memory modeling circuit according to claim 1, wherein said control circuit is unable to receive ~~stops receiving the first kind~~ data sent from said compare circuit ~~until said control circuit enters the reading mode~~ while said control circuit is in the writing mode.

9. (Currently Amended) The memory modeling circuit according to claim 1, wherein said control circuit is able to receive the first kind data from ~~makes said compare circuit and is unable to receive said memory data from~~ ~~stop writing the data to~~ said plurality of memories ~~until said control circuit enters the writing mode~~ while said control circuit is in the reading mode.

10. (Currently Amended) A memory modeling circuit with fault toleration, comprising:  
a compare circuit, used to receive ~~receiving~~ memory data stored in the same address in of

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a plurality of memories, wherein the compare circuit compares at least three data inputs from different memories, wherein if the data inputs are divided into a first kind data and a second kind data and if the count of the first kind data outnumbered that of the second kind data, the compare circuit will output the first kind data and comparing the data with each other,

a control circuit connecting said plurality of memories, wherein said control circuit can enters a writing mode and writes information data to the same address in of said plurality of memories, ~~and said control circuit or~~ enters a reading mode to load data generated by from said compare circuit; and

a test circuit receiving the memory data stored in the same address in of said plurality of memories and the first kind data generated by said compare circuit to generate a testing result.

11. (Currently Amended) The memory modeling circuit according to claim 10, wherein said test circuit further comprises a plurality of sub-test circuits with the same circuit design.

12. (Currently Amended) The memory modeling circuit according to claim 11, wherein said testing result can identify a faulty memory or a faulty sub-test circuit.

13. (Currently Amended) The memory modeling circuit according to claim 10, wherein said compare circuit further comprises a plurality of sub-compare circuits with the same circuit design.

14. (Currently Amended) The memory modeling circuit according to claim 10, wherein

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said testing result gets an error code and then an engineer knows the fault part according to different error code combinations and ~~repair~~ repairs said fault part to keep the reliability.

15. (Currently Amended) The memory modeling circuit according to claim 10, wherein said plurality of memories are the same type of memory.

16. (Currently Amended) The memory modeling circuit according to claim 15, wherein said memory is synchronous dynamic random access memory (SDRAM).

17. (Currently Amended) The memory modeling circuit according to claim 10, wherein said control circuit is unable to receive ~~steps receiving the first kind~~ data sent from said compare circuit ~~until said control circuit enters the reading mode~~ while said control circuit is in the writing mode.

18. (Currently Amended) The memory modeling circuit according to claim 10, wherein said control circuit is able to receive the first kind data from ~~makes~~ said compare circuit and is unable to receive said memory data from ~~stop writing data to~~ said plurality of memories ~~until said control circuit enters the writing mode~~ while said control circuit is in the reading mode.